		
	Application No.	Applicant(s)
Notice of Allowability	10/654,790	PAN, JANET L.
	Examiner	Art Unit
	Mai Huang Tran	2818
	Mai-Huong Tran	2818
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	is application. If not included cation will be mailed in due course. THIS
1. \square This communication is responsive to $\underline{10/17/05}$.		
2. The allowed claim(s) is/are <u>1-18,230 and 231</u> .		•
3. ☐ Acknowledgment is made of a claim for foreign priority ura) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Inform	nal Patent Application (PTO-152)
 Notice of References Cited (P10-092) Dotice of Draftperson's Patent Drawing Review (PT0-948) 	6. ☐ Interview Sumr	
2. Involice of Draitperson's Faterit Drawing Neview (F10-340)	Paper No./Ma	il Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/17/05 	08), 7. ⊠ Examiner's Am	endment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🗌 Examiner's Sta	tement of Reasons for Allowance
	9.	

DETAILED ACTION

Election/Restriction

Applicant's election of claims 1-18 and 230-231 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Applicants have the right to file a divisional application covering the subject matter of the non-elected claims.

Examiner's Amendment.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Cancel claims 19-229.

Reason for allowance

The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed Use of deep-level transitions in semiconductor devices having a deep-level region having one or more deep-level state(s) with energy at least $0.05 E_G$ above E_v and at least $0.05 E_G$ below E_c ; and, means for injecting carriers into the deep-level region to produce transistion(s) between one or more

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of the deep-level state(s) and the conduction- or valence-band or another deep-level of the host material.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Mai-Huong Tran, (571) 272-1796. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM. The examiner's supervisor, David Nelms can be reached on (571) 272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MH

Mai-Huong Tran